

GeneratorJoe





Centurion J Series Model: 42 JD and JD-3

Ratings

Single and/or Three Phase Available

60 Hz Standby: kW 41.0

kVA 410

Diesel Fuel Only

Features

- Single source responsibility for the generator set and accessories.
- Prototype and production tested to insure one step load acceptance per NFPA 110.
- Two year limited warranty on generator sets and accessories.
- Unit conforms to NEMA, UL, ANSI and other standards.
- Heavy duty 4 cycle industrial engine for reliability and fuel efficiency.
- Brushless rotating field generator with class H insulation.

- Heavy duty steel base with integral vibration isolators.
- Electronic Isochronous Governor.
- EPA
- Aluminum powder coated housing.
- Deep Sea 7420 controller.
- ABB breakers.
- Extended oil/radiator drains.
- 6 Amp battery charger.

				Diesel Fuel		Power Lead
Generator	Voltage	PH	Hz	kW/kVA	Amps	Connections
42 JD-1-1	120/240	1	60	41/41	170	4 Lead Dedicated 1 Ph.
42 JD-3-2	120/208	3	60	42/52.5	146	12 Lead Low Wye
42 JD-3-3	120/240	3	60	42/52.5	126	12 Lead High Delta
42 JD-3-4	277/480	3	60	42/52.5	63	12 Lead High Wye
42 JD-3-5	127/220	3	60	42/52.5	110	12 Lead Low Wye

RATINGS: All single phase gen-sets are dedicated 4 lead windings, rated at unity (1.0) power factor. All three phase gen-sets are 12 lead windings, rated at .8 power factor. 130°C "STANDBY RATINGS" are strictly for gen-sets that are used for back-up emergency power to a failed normal utility power source. This standby rating allows varying loads, with no overload capability, for the entire duration of utility power outage. All gen-set power ratings are based on temperature rise measured by resistance method as defined by MIL-STD 705C and IEEE STD 115, METHOD 6.4.4. All generators have class H (180°C) insulation system on both rotor and stator windings. All factory tests and KW/KVA charts shown above are based on 130°C (standby) R/R winding temperature, within a maximum 40°C ambient condition. Generators operated at standby power ratings must not exceed the temperature rise limitation for class H insulation system, as specified in NEMA MG1-22.40. Specifications & ratings are subject to change without prior notice.

Manufacturer	John Deere
Model and Type4024	HF285, 4 cycle Liquid Cooled
Aspiration	
Charged Air Cooled System	Air to Air
Cylinder Arrangement	4 Cylinders, In-Line
Displacement Cu. In. (Liters)	
Bore & Stroke In. (Cm.)	3.4 x 4.1 (8.6 x 10.5)
Compression Ratio	18.2:1
Main Bearings & Style	4, Cu-Pb Metal, Babbitt
Cylinder Head	
Pistons	
Crankshaft	
Exhaust Valve	
Governor	Electronic
Frequency Regulation	
Air Cleaner	Dry, Replaceable Cartridge
Engine Speed	1800 rpm

FUEL SYSTEM

Type Die	esel Fuel Oil (ASTM No. 2-D)
Combustion System	Direct Injection
Fuel Injection Pump	
12 VDC Glo-Plugs	Standard Equipment
Fuel Filter and Water Separate	orYes

Max Power, bhp (kwm) Standby......80 (60) BMEP: psi (kpa) Standby......190 (1307) Ltd. Warranty Period . 24 Months or 2000 hrs., first to occur

FUEL CONSUMPTION

GAL/HR (LITER/HR)	STANDBY
100% LOAD	3.75 (14.2)
75% LOAD	2.80 (10.6)
50% LOAD	1.87 (7.1)

OIL SYSTEM

Type	Full Pressure
Oil Pan Capacity qt. (L)	
Oil Pan Cap. W/ filter qt. (L)	
Oil Filter	1, Replaceable Spin-On

ELECTRICAL SYSTEM

Ignition System	Electronic
Eng. Alternator and Starter:	
Ground	Negative
Volts DC	
Recommended Battery to -18°C (0°F): 12 '	
Max Dimensions: 10 3/4" lg X 6 3/4" wi	X 9" hi, with stan-
dard round posts. Min. output at 600 C	
(max. dim. at 12"lg x 7"wi), hold down s	
bles, and battery charger, is furnished.	Installation of (1)
starting battery is required, with possible	
rating, as described above, if normal e	environment aver-
ages -13°F (-25°C) or cooler.	

COOLING SYSTEM

	Pressurized, closed recovery
Coolant Pump	Pre-lubricated, self-sealing
Cooling Fan Type (no. of bla	ides)Pusher (7)
Fan Diameter inches (cm)	20" (50.8)
Ambient Capacity of Radiato	or °F (°C)125 (52)
Engine Jacket Coolant Capa	acity Gal. (L)
Radiator Coolant Capacity C	Sal.(L)9.49 (36.0)
Water Pump Capacity gpm ((L/min)27 (102)
Heat Reject Coolant : Btu/mi	in (kw)2265 (40)
Low Radiator Coolant Level	ShutdownStandard
	tch setting at 220°F (104°C) with 50/50
(water/antifreeze) mix.	

COOLING AIR REQUIREMENTS

Combustion Air, cfm (m³/min)	127 (3.6)
Max. Air Intake Restrictions:	
Clean Air Cleaner, H ₂ O (KPA)	12 (3)
Intake Manifold Pressure, PSI (kpa)	22 (155)
Max. Allowable Temp. Rise, Amb.:	
Air to Engine Inlet, °F (°C)	15 (8)
Radiator Cooling Air, SCFM (m³/min)	.3400 (96)

EXHAUST SYSTEM

Exhaust Outlet Size	2.5"
Max. Back Pressure in. H ₂ O (kpa)	30 (7.5)
Exhaust Flow, at rated kw: cfm (m ³ /min)	
Exhaust Temp., at rated kw: °F (°C)	1020 (549)









Email: sales@generatorjoe.Net Web: www.generatorjoe.NET

ALTERNATOR SPECIFICATIONS

STANDARDS: Marathon MagnaPlus and MagnaMax generators meet UL Listed Electric Generator, American and other international standards such as: NEMA MG1-22. BS5000, CAS C22.2, IEC 34-1 AND VDE 0530. Other standards and certifications can be considered upon request. (Both MagnaPlus & MagnaMax series are built with NEMA Class H Insulation materials or better which are normally rated at 190C degrees total temperature by NEMA however UL laboratories demands the total temperature be derated to a maximum of 160C total temperature when "UL LISTED").

VOLTAGE REGULATOR: SE350, supplied with standard MagnaPlus units and excitation system have solid state voltage build-up, encapsulated for humidity and abrasion protection, 1% regulation, volts per hertz operation, over excitation shutdown, stability adjust and built-in voltage adjustment.

PM300 (optional on MagnaPlus) Supplied with optional PMG excitation support have solid state voltage build-up, encapsulated for humidity and abrasion protection, 1% regulation, volts per hertz operation, over excitation shutdown, stability adjust and built-in voltage adjustment.

DVR2000E+ (optional for MagnaPlus) Standard on Magna-Max voltage regulator and PMG excitation support system are digital, microprocessor design with solid state voltage build-up, encapsulated for humidity and abrasion protection, 1/4% regulation, true volts per hertz operation with adjustable cut in, loss of sensing continuity shutdown, over excitation shutdown, 3 phase RMS sensing, over voltage

protection, and provisions for parallel operation.

PMG Excitation Support System (Standard on MagnaMax) Optional for MagnaPlus, permanent magnet generator excitation support system, minimum short circuit support current of 300% of the rating (250% for 50 hertz) for 10 seconds.

INSULATION SYSTEM: Meet UL1446, UL2200 requirements. Class H materials or better.

MAIN ROTOR: MagnaPlus main rotating field construction shall consisting of one piece, four pole laminations, incorporate amortisseur windings to facilitate parallel operation and application to voltage distorting loads. In addition, the amortisseur winding and field pole coil supports may be integrally die cast with the rotor laminations to form a unitized rotor core. The rotating assembly shall be dynamically balanced to less than 2 mils-peak-to-peak-displacement, and shall be designed to have an over speed withstand of 125% of rated speed for 15 minutes when operating at stable rated operating temperature.

VERIFICATION OF PERFORMANCE: (MagnaPlus series) All certified performance and temperature rise test data submitted by generator manufacturer are to be the result of the actual test of the same or duplicate generators. Temperature rise data shall be the result of loaded, rated power factor heat runs at the rated voltage and hertz. All performance testing shall be done in accordance with MIL-STD-705 and/or IEEE Standard-115. Generators are manufactured using production procedures & quality assurance to ISO9001:2008.

DEEP SEA 7420 DIGITAL MICROPROCESSOR CONTROLLER



auto start mains (utility) failure module for single gen-set applications. This controller includes a backlit LCD display which continuously displays the status of the engine and generator at all times.

The 7420 controller will also monitor speed, frequency, voltage, current, oil pressure, coolant temp., and fuel levels. These modules have been designed to display warning and shut down status. It also includes: (11) configurable inputs alerts • (8) configurable outputs alerts • voltage monitoring • mains (utility) failure detection • (250) event logs • configurable timers • automatic shutdown or warning during fault detection • remote start (on load) • engine preheat • advanced metering capability • hour meter • text LCD displays • protected solid state outputs • test buttons for: stop/reset • manual mode • auto mode • lamp test • start button • power monitoring (kWh, kVAr, kVAh, kVArh)

The 7420 controller is an This controller includes the 7420 expansion features including RS232, RS484 (using MODBUS-RTU/TCP), direct USB connection with PC, expansion optioned using DSE-Net for remote annunciation and remote relay interfacing for a distance of up to 3300FT. The controller software is freely downloadable from the internet and allows monitoring with direct USB cable, LAN, or by internet via the built in web interface.



Further expansion is available by adding the optional "WebNet" gateway interface module. This device will allow comprehensive monitoring of the generator via the cloud including identification, location, and status. Some advantages of this module include: reduced site visits and maintenance costs • remote fuel management • fault analysis • asset tracking • automatic system alerts • maximized system up-time.





Standard Features and Optional Accessories

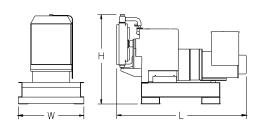
Standard Features

- · Heavy duty steel base
- Vibration isolators
- Oil/radiator drain valve with extension
- Battery charger
- Battery cables/rack
- Circuit breaker
- Owners manual
- Electronic Isochronous Governor

Weights and Dimensions

Overall Size, L x W x H, in.: 78 in. x 42 in. x 49 in. Weight (Wet): 1,419 lbs.

Note: Dim and weights reflect standard open unit with no options



Note: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

Optional Accessories

- □ PMG
- PMG with DVR regulator
- Block heater
- Battery heater
- □ Battery charger upgrades (10-20 amp)
- □ E-stop
- Enclosure lights
- Liquid LP withdrawal
- □ Dual fuel
- WebNet gateway (remote monitoring)
- □ NFPA 110 compliance package
- □ 3 phase sensing
- □ Generator strip heater
- 8 Lamp Annunciator panel
- Weather enclosure with internal muffler.
- Hospital grade silencers
- Oil pan heater
- □ Flexible fuel lines



GeneratorJoe®

4723 Muirfield Court Santa Rosa, CA 95405 Phone: 707 542-2224

Fax: 707 542-2227

Email: sales@generatorjoe.Net Web: www.generatorjoe.NET

A disabled veteran owned small business.

Cage 1U5V7 - TIN/EIN #943026355 - Duns #054590203





Centurion J Series
Model: 42 JD and JD-3



Copyright 1996-2019 All Rights Reserved